

**POLYESTER RESIN**

Patent Number: JP2001114887  
Publication date: 2001-04-24  
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Requested Patent: JP2001114887  
Application Number: JP20000237894 20000807  
Priority Number(s):  
IPC Classification: C08G63/85  
EC Classification:  
Equivalents:

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**Abstract**

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**PROBLEM TO BE SOLVED:** To obtain a polyester resin obtained by using a titanium compound excellent in environmental safeguard as a polycondensation catalyst, having properties capable of being deactivated by a heating treatment in water, as a result, having good melt stability and hardly staining the mold because of reducing the increase of a cyclic oligomer after the molding.

**SOLUTION:** This polyester resin capable of being produced by polymerizing an aromatic dicarboxylic acid and ethylene glycol as essential components in the presence of a titanium compound in a proportion of 0.002-1.0 mol per 1 t polyester resin expressed in terms of titanium atom (Ti) satisfies the inequality:  $(\eta_3 - \eta_1) / (\eta_2 - \eta_1) < 0.90$  [ $\eta_1$  is an intrinsic viscosity of the polyester resin;  $\eta_2$  is an intrinsic viscosity of the polyester resin after heat-treating the resin with the intrinsic viscosity  $\eta_1$  in nitrogen gas flow at 210 deg.C for 10 h; and  $\eta_3$  is the intrinsic viscosity of the polyester resin after heat-treating the polyester resin having the intrinsic viscosity  $\eta_1$  and treated in water at 95 deg.C for 4 h, in nitrogen gas flow at 210 deg.C for 10 h].

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